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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/809,385	03/26/2004	Shigeru Muramatsu	0109/002001	7623	
22893	7590 • 11/03/2005		EXAM	EXAMINER	
<del>-</del>	ENT OFFICE		LEYKIN	i, RITA	
1901 PENNSY SUITE 901	LVANIA AVENUE N W		ART UNIT	PAPER NUMBER	
	N. DC 20006		2837		

DATE MAILED: 11/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/809,385	MURAMATSU, SHIGER	U
Office Action Summary	Examiner	Art Unit	
	Rita Leykin	2837	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONI	N. mely filed n the mailing date of this communic ED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on      This action is FINAL. 2b)⊠ This      Since this application is in condition for alloware closed in accordance with the practice under the practice of the condition of the	action is non-final.  Ince except for formal matters, pr		ts is
Disposition of Claims			
4) ☐ Claim(s) 1-13 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-13 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Examine 10)☑ The drawing(s) filed on 26 March 2004 is/are:  Applicant may not request that any objection to the  Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Ex	a) accepted or b) objected to drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.12	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	tion No red in this National Stage	
Attachment(s)			
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 03/26/04.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Muramatsu US # 5,952,806.

Muramatsu teaches three-dimensional actuators 30 for driving a movable object 31, including sensors 32 for producing three kinds of positional data information X, Y, Z for controlling the three dimensional actuators 30. Fig. 12, 11, 22 and 25 show a performance input apparatus in form of electronic musical instrument operated by human to control the tone of sound on the basis of detecting signals, as also claimed in claims 2, 4, 10, (see Fig. 22, col. 24, lines 23-45).

Muramatsu discloses in Fig. 12 with respect to claims 1, 3, 5, 6, and 8:

- A base section in form of a stationary member 30g,h, j;
- An operating section 31 that is displaceable in response to operation by a human operator, relative to at least on displacement axis;
- A pivot section that includes a rotary shaft rotational about a pivot axis in response to the operation, is presented in form of actuators 30a,b,c that freely turn around points P/Q/R, (see col. 10, lines 35-44);

A detection section presented in form of detectors 32a, b, c, (see col.11, lines 14-32);

- A reactive force information generation section is presented in form of processor
   33d that supplies the data signals representative of the reaction components
   Fx/Fy/Fz, based on detected positional signals;
- A reactive force generation section that imparts a reactive force to the operating section 31 presented in form of driving units 33f/33g/33h and plungers
   30k/30m/30n, (see col. 11, lines 35-56, col. 12, lines 25-48);
- An output section that outputs a control signal responsive to human operator on
  the basis of detection signals is presented in form of vector arithmetic processor
  33d, demultiplexers 33j of the driving unit 33f,g,h and PWM drivers 33k, that
  distribute data signals in such a manner that associated thee dimensional
  actuators 32 exert the sets of components Fx,/Fy,Fz on the associated moving
  section 31 respectively.

With respect to claim 11 the placement of the device on ground or floor or table is inherent.

With respect to claims 3, 9, 12 and 13, Fig. 22 show an embodiment, wherein the operational section includes an operating arm 90a capable of rotating in directions of arrows AR20 and AR21, that suggests displacement in plurality of axes.

With respect to claim 7 the application of counter torque for each of the displacement axes to the operating section is inherent due to function of universal joint 30r.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita Leykin whose telephone number is (571)272-2066. The examiner can normally be reached on Monday-Friday 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on (571)272-2107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

R.L.

Rita Leykin Primary Examiner Art Unit 2837

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